
RAN Application: Telephone set-based OA&M

This chapter describes the telephone set-based OA&M access to the RAN applications.

General steps in configuring and using the telephone set

To use a telephone set-based OA&M access, the following steps are required:

- 1** Configure port/channel 7 as the DID trunk for the telephone set-based OA&M access. Refer to “Configuring telephone set-based OA&M access” on page 69.
- 2** Assign channel 7 for telephone set-based OA&M access, if not already assigned, refer to “OA&M Access Configuration” on page 142.
- 3** Go off-hook and dial the access code.
- 4** Enter the password (must be all numeric). Go to Password Entry flowchart in “Password Entry” on page 100. The Main Menu becomes accessible to the user.
- 5** From the Main Menu, dial the appropriate command to execute a specific function. Refer to “Main Menu” on page 101.

From the Main Menu you can activate the following functions:

- Dial **1** to setup messages. Refer to “Setup Menu” on page 105.
- Dial **2** to play the current message.
- Dial **4** to move to the previous menu.

- Dial **5** to record a message. Refer to “Record Menu - part 1” on page 102.
 - Dial **6** to move to the next message.
 - Dial **8** to query the MIRAN security ID.
 - Dial **76** to delete a message. Refer to “Delete Menu” on page 104.
- 6** Assign announcements (recorded using the telephone set) to specific channels, time-of-day, and day-of-the-week using the terminal, refer to “Assign Message” on page 118.

Note: To assign a message using the telephone set-based OA&M access command, you remove all previous assignments for the channel selected, which may not be what you want. By using the terminal-based OA&M access menu “Assign Message” on page 118, you can assign specific messages to specific channels without deleting all previous assignments for that channel.

Telephone set-based interface

Note: Before you can login and access the MIRAN, you must **be sure that the keycode has been loaded into the MIRAN**. Otherwise, you will not be able to access the MIRAN. The keycode is installed into the MIRAN at the factory when ordered with a new Meridian 1 (Options 51C through 81C). For Option 11 and merchandize orders of the MIRAN, the keycode is not loaded and must be entered using a VT100 type terminal.

A telephone set-based interface within the RAN application allows you to access the application from any telephone set, either internally or externally, to record new announcements or to swap existing announcements in and out of service. It is intended for use in small system configurations where the MIRAN card is used for basic RAN applications. The telephone set-based OA&M is useful for quick modification of announcements but not suitable for extensive or complex modifications; extensive changes are better handled by the terminal-based OA&M interface.

The operations performed in this mode are limited to:

- record new messages or announcements
- play messages

- assign messages to one-to-one internal ports and two cross-connect ports
- access the card's security ID

It is not possible to access the telephone set-based OA&M while the terminal-based OA&M is logged in.

One of the eight one-to-one ports (port 7) on the MIRAN card must be dedicated to support the telephone set-based OA&M access. The reserved port is configured as a DID trunk on the Meridian 1 system to make it accessible over its route access code. The telephone set-based OA&M reduces the number of MIRAN ports available for RAN or music from eight to seven. Because there is no messaging between MIRAN cards, one port must be reserved for the telephone set-based OA&M on each MIRAN card that requires this interface. If the telephone set-based OA&M is not required, then all eight ports on the MIRAN card are available for RAN or music.

The telephone set-based OA&M access may be invoked locally on the system or remotely external to the system. Security for telephone set-based OA&M is ensured via a MIRAN-provided password. The MIRAN card will not identify itself until a valid password has been entered. Overwriting/deleting files, accessing system configuration functions, and changing passwords are not possible in the telephone set-based mode.

The user interface for the telephone set-based OA&M access uses a series of simple voice menus and prompts to guide the user through the configuration process. All prompts are in N.A. English and are part of the existing Meridian Mail prompt pool.

The tone interface for the telephone set-based OA&M access is based on that for Meridian Mail, for example, press "76" to delete an announcement. All feedback to the user is also by using tones, e.g. overflow tone for error conditions. A lookup card for the telephone set-based OA&M is provided to the craftsperson, similar to the one provided for users of Meridian Mail.

Restrictions on telephone set-based OA&M access

Toll calls to the telephone set-based OA&M channel can be disconnected if the NATL prompt in LD 16 is set to YES. Dialing a 0 or a 1 as the first digit is not allowed and the call is released if you specify NATL= YES. The same thing happens when the NFCR prompt is set to YES in LD 15. Both prompts should be set to NO to avoid this problem.

When you dial the password, after the password press the number sign twice (##) to make sure the system recognizes the end of the password.

Using the telephone set

To perform application tasks over the telephone set, you have to use the telephone dialpad. By pressing specific digits on the dialpad, you will be able to login and issue specific commands as described below.

Login

To login, you must dial the access code of the DID trunk configured on channel 7 of the MIRAN card. Channel 7 must be enabled using the *Access Configuration* menu in the *RAN Application: Terminal-based OA&M* chapter in this document.

The default password is “4321”. Enter the password with **all numeric characters** followed by two number signs (##). If after three attempts you do not enter a correct password, the system will lock you out.

Menu operation

Menu selection is made by pressing a digit on the telephone dialpad. To terminate an entry execution and to request content specific help messages:

- **Terminate an Entry** - enter # (this number sign is used to exit the menu)
- **Request for Help** - enter * (this star sign provides a help message)

Assigning a message

To assign a message file to a port so that any call routed to that specific port will hear the assigned message.

Table 21 shows internal and cross-connects MIRAN ports/channels.

Table 21
Port/channel number assignments for telephone set-based OA&M

Channel Number	Description
0	Internal one-to-one port/channel
1	Internal one-to-one port/channel
2	Internal one-to-one port/channel
3	Internal one-to-one port/channel
4	Internal one-to-one port/channel
5	Internal one-to-one port/channel
6	Internal one-to-one port/channel
7	Internal one-to-one port/channel (used for telephone set-based OA&M access, if required).
8	Cross-connect channel (also A0 for terminal-based OA&M access configuration)
9	Cross-connect channel (also A1 for terminal-based OA&M access configuration)

*Port/channel 7 is configured for the terminal-based OA&M access.

- **Setup** - enter **1** (it activates the assign command)
- **Enter port number** - enter the port number from the table above

Message selection

When you login, the first message within the available disk volumes is automatically selected. This message can be assigned, played, or deleted. To select a message:

- **Next Message** - enter **6** (to go to the next message in the sequence)
- **Previous Message** - enter **4** (to return to the previous message)

When you go back to the start of the message list, the announcement will be “Message one”.

Playing a message

To play the currently selected message file use the following command sequence:

- **Play Message** - enter **2** (plays the current message from the main menu)
- **Stop Playing** - enter **#** (to stop playing the current message)

Recording a message

To record a message use the following command sequence. When saved, recorded messages are assigned a filename of the form MSGnnnn.ALW or MSGnnnn.ULW depending on the system companding law:

- **Record Message** - enter **5** (to record a new message)
- **Stop Recording** - enter **#**
- **Save Message** - enter **1**

The message can be added to the first disk volume with available space of at least 64 kbytes or 8 seconds of recording.

If the available space is exceeded while recording, a BEEP is given along with the “Recording stopped” announcement.

Deleting a message

The current message will be unassigned and deleted.

- **Delete a Message** - enter **76** (unassigns and deletes the current message)

Playing the 8-digit security device ID

To hear the MIRAN security device ID number:

- **Security device ID** - enter **8** (will hear the eight digits that identify the security device)

Example of a message recording over an analog port

Table 22 lists the steps required to use the telephone set to activate, update, or delete messages on the MIRAN.

Table 22
A telephone set-based MMI example

Step	User action	MIRAN response	Comments
1	Go off-hook	N/a	N/a
2	Enter access code for channel 7	Voice prompts for Login; password	Dial the MIRAN admin DN (access code).
3	Enter password and then ## (all numeric)	Voice menu of options available	You may receive a "Login incorrect" message if the password is in error.
4	Press 5 to start recording	Voice menu of options available	Records one or more messages into temporary files.
5	Enter "#" to stop recording	STOP_TONE	Recording stops.
6	Enter "1" to save the message	"Message saved"	The message is saved to disk and becomes the currently selected message.
7	Place the receiver on-hook	N/a	N/a
8	Select Play Message menu using the terminal	Play messages form temporary files	If messages are acceptable, you can assign them to channels.
9	Select Assign Message menu using the terminal	Assign the message to the channel, time and day	This assigns each message recorded using telephone set-based OA&M access to the appropriate channel.

Voice prompts

Table 23 lists voice prompts file names, prompt detail, and its duration.

Table 23

OA&M voice segment files, their content, and duration (Part 1 of 2)

Filename	Prompt content	Duration
_seg0242.sbc	Sorry, that command cannot be used at this point.	2.72sec
_seg0247.sbc	There is nothing to play.	1.24sec
_seg0248.sbc	silence	0.44sec
_seg0262.sbc	Good-by	0.8sec
_seg0323.sbc	zero	0.83sec
_seg0324.sbc	one	0.76sec
_seg0325.sbc	two	0.67sec
_seg0326.sbc	three	0.8sec
_seg0327.sbc	four	0.8sec
_seg0328.sbc	five	0.92sec
_seg0329.sbc	six	0.89sec
_seg0330.sbc	seven	0.83sec
_seg0331.sbc	eight	0.67sec
_seg0332.sbc	nine	0.83sec
_seg0369.sbc	Please try again.	1.56sec
_seg0391.sbc	To exit, press number sign (#).	2.27sec
_seg0404.sbc	To begin recording, press 5. To end recording, press number sign (#).	4.57sec
_seg0410.sbc	For help, press star (*).	2.14sec
_seg0518.sbc	Please enter your password, followed by number sing (#).	2.72sec

Table 23
OA&M voice segment files, their content, and duration (Part 2 of 2)

Filename	Prompt content	Duration
_seg0523.sbc	Deleted.	0.6sec
_seg0562.sbc	End of list.	0.89sec
_seg0643.sbc	To go to the next message, press 6. To go to the previous message, press 4.	4.96sec
_seg1237.sbc	Message saved as message.	2.11sec
_seg2003.sbc	To re-record the prompt, press 5. to review it, press 2.	4.25sec
_seg2220.sbc	Assistance is not available.	1.6sec
_seg2291.sbc	Main menu.	0.92sec
_seg2342.sbc	Login incorrect.	1.53sec
_seg2451.sbc	To save the message as new, press one.	2.52sec
_seg2528.sbc	Enter a list of addresses followed by number sing (#). End the list by an additional number sign (##).	6.04sec

Telephone set-based OA&M flowcharts

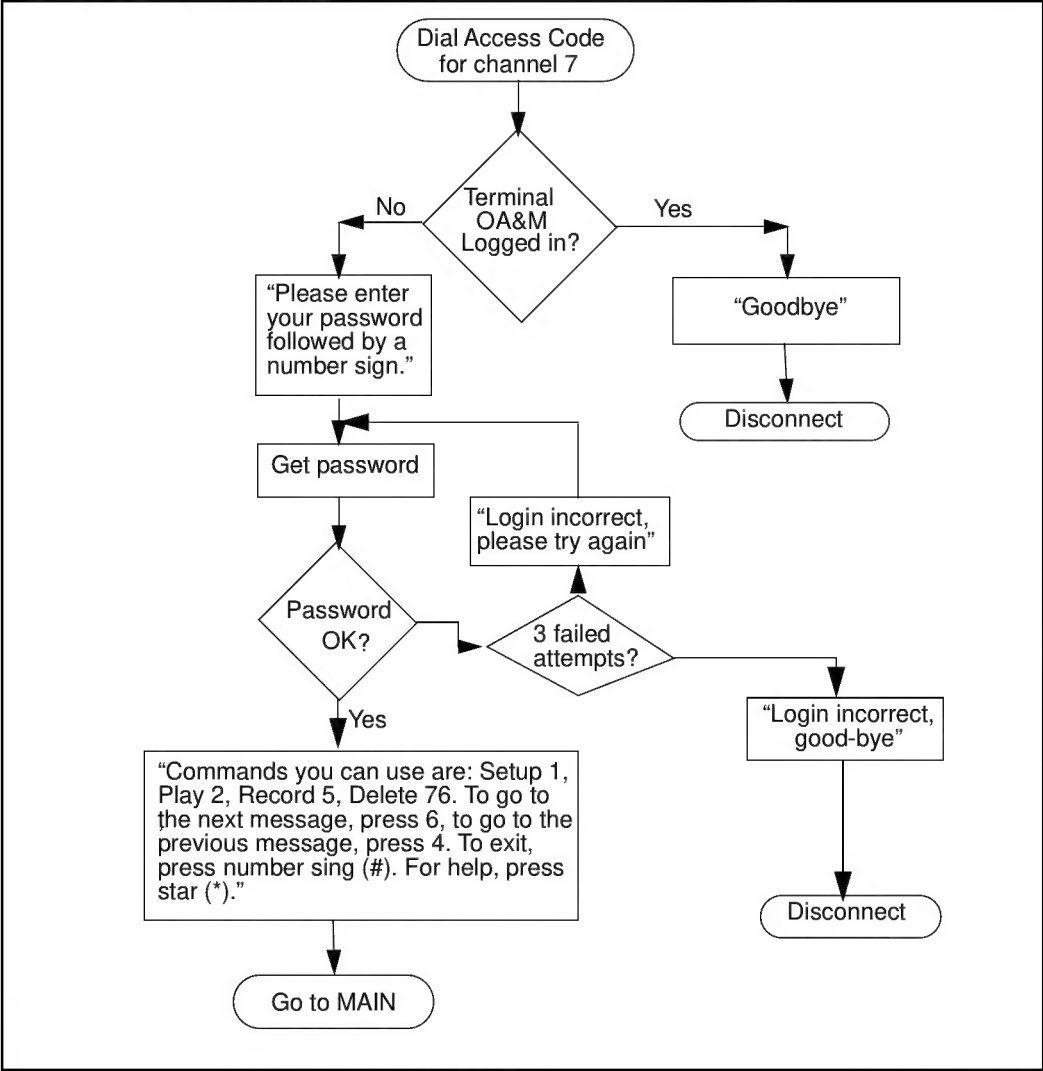
Refer to the telephone set-based flowcharts on the pages indicated to view the following telephone set-based functions:

- Password Entry flowchart
- Main Menu flowchart
- Record menu flowchart
- Delete menu flowchart
- Setup menu flowchart

Password Entry

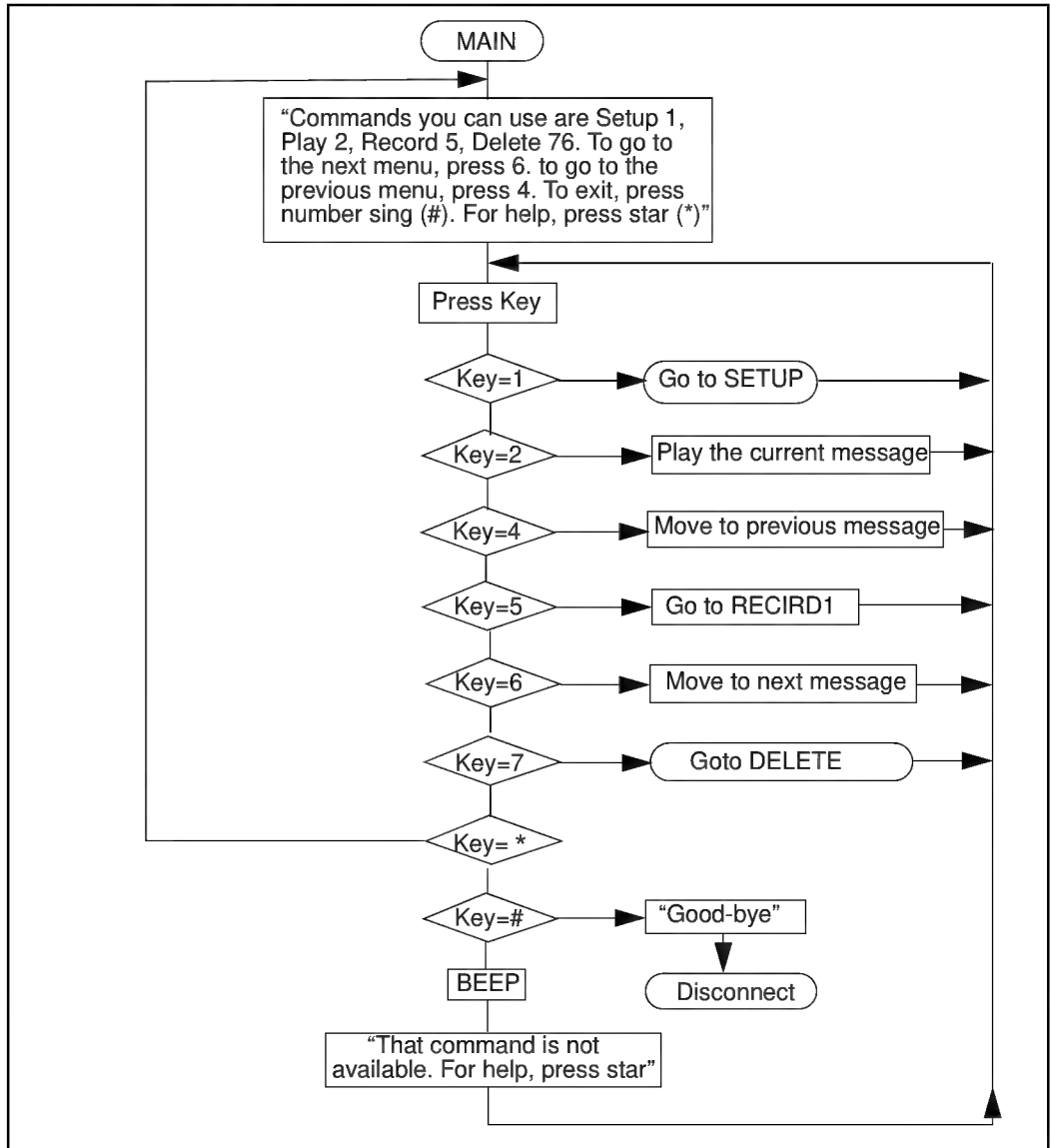
Dial in the access code to access MIRAN.

Figure 21
Password entry flowchart



Main Menu

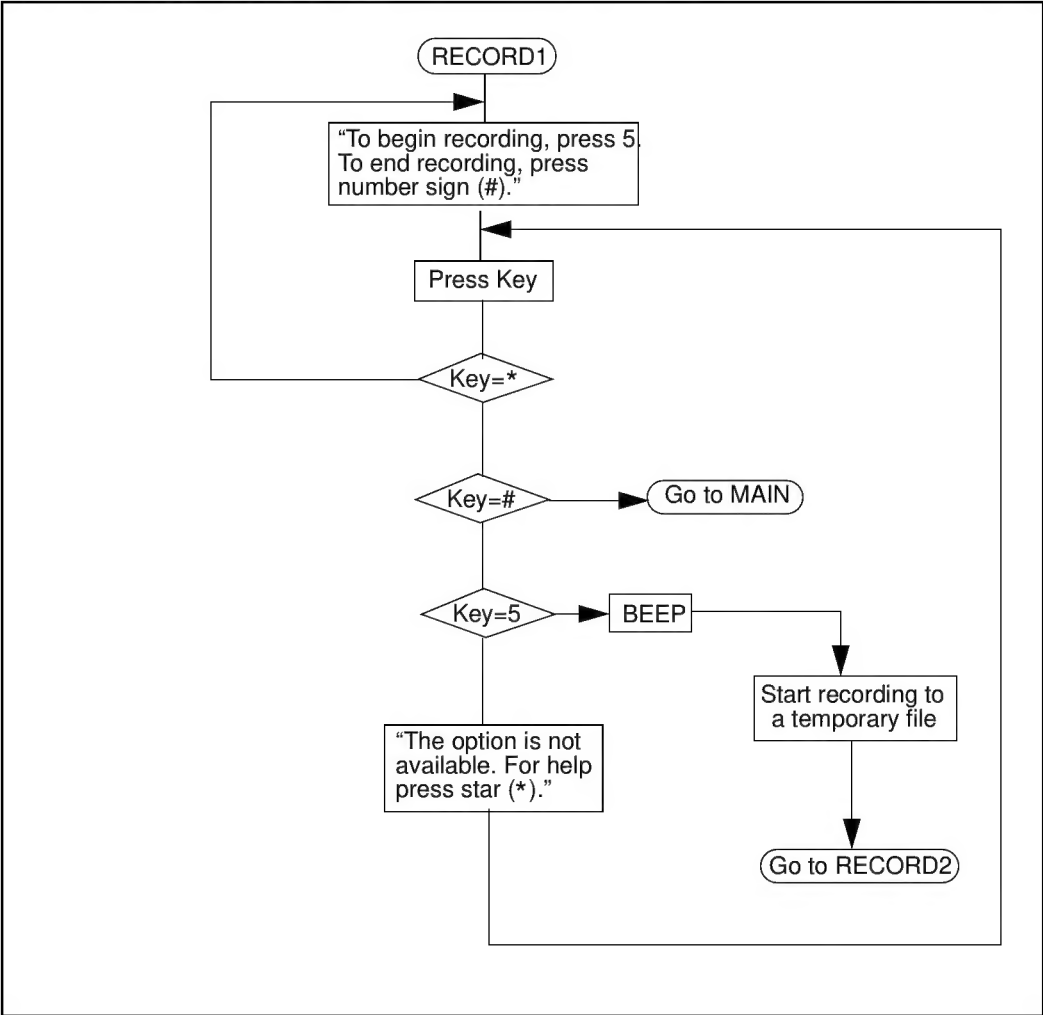
Figure 22
Main Menu flowchart



Record Menu - part 1

Dial 5 in the Main Menu to access the Recording Menu. This function allows you to make recordings, which are later assigned using the Setup menu. The Setup menu is accessed from the Main Menu by dialing 1.

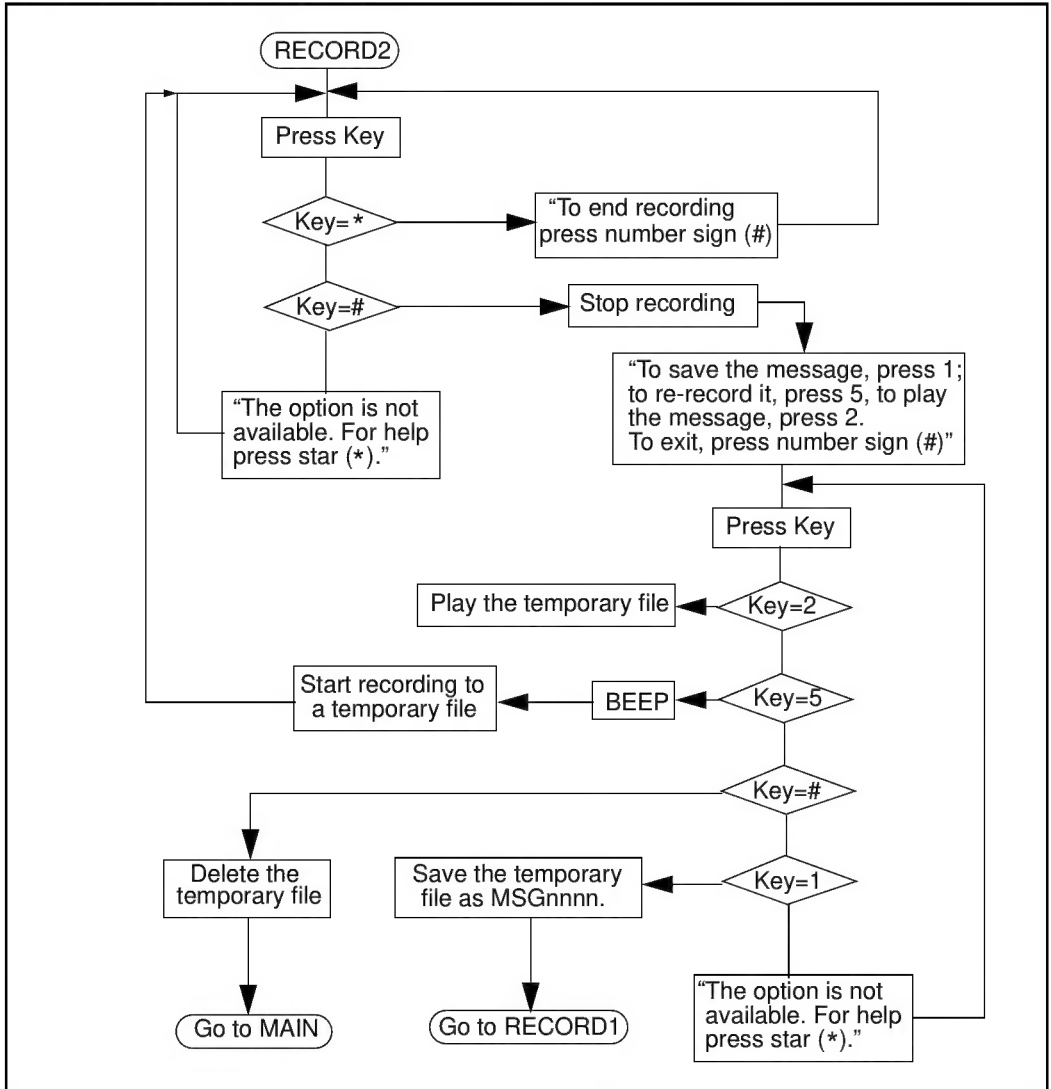
Figure 23
Record menu flowchart, part 1



Record Menu - part 2

This menu allows you to record and save the recorded message file.

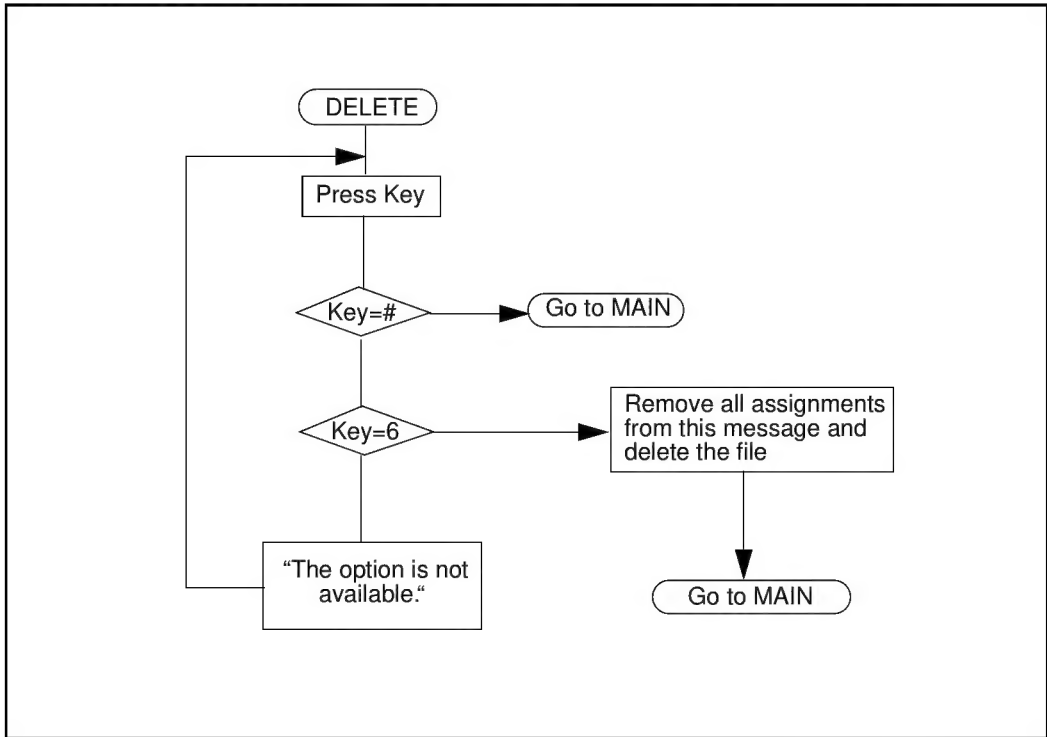
Figure 24
Record menu flowchart, part 2



Delete Menu

The Delete menu is accessed from the Main Menu by dialing 76. This function deletes the message from an assignment.

Figure 25
Delete menu flowchart



Setup Menu

This menu is accessed by dialing 1 in the Main Menu. It assigns messages to RAN channels.

Figure 26
Setup menu flowchart

